

Title (en)  
NO-GLUE POCKETED SPRING UNIT CONSTRUCTION

Title (de)  
KLEBSTOFFFREIE KONSTRUKTION EINER TASCHENFEDEREINHEIT

Title (fr)  
CONSTRUCTION D'UNITÉS À RESSORTS ENSACHÉS SANS COLLE

Publication  
**EP 2916690 A4 20151021 (EN)**

Application  
**EP 14741054 A 20140118**

Priority

- US 201361754529 P 20130119
- US 201361757075 P 20130125
- US 2014012147 W 20140118

Abstract (en)  
[origin: US2014201924A1] Methods and systems for no-glue pocketed spring unit construction. Rows of pocketed springs, preferably arranged into modules of more than two pocketed springs surrounding a central hole, are ultrasonically welded together when paired vibrating probes and anvils press layers of pocketed spring fabric from the rows of pocketed springs together and a welding pulse is transmitted to the vibrating probe.

IPC 8 full level  
**A47C 27/07** (2006.01); **B68G 9/00** (2006.01)

CPC (source: EP US)  
**A47C 27/062** (2013.01 - EP US); **A47C 27/064** (2013.01 - EP US); **A47C 27/07** (2013.01 - EP US); **B23K 11/002** (2013.01 - US); **B23K 11/362** (2013.01 - US); **B29C 65/08** (2013.01 - EP US); **B29C 65/088** (2013.01 - US); **B29C 65/72** (2013.01 - US); **B29C 65/7838** (2013.01 - US); **B29C 66/1122** (2013.01 - EP US); **B29C 66/5227** (2013.01 - EP US); **B29C 66/61** (2013.01 - EP US); **B29C 66/63** (2013.01 - EP US); **B29C 66/729** (2013.01 - EP US); **B29C 66/8322** (2013.01 - EP US); **B29C 66/8432** (2013.01 - EP US); **B68G 9/00** (2013.01 - US); **B29L 2031/58** (2013.01 - US); **B29L 2031/751** (2013.01 - EP US); **B68G 7/12** (2013.01 - US); **B68G 11/06** (2013.01 - US); **B68G 15/00** (2013.01 - US); **Y10T 29/48** (2015.01 - EP US); **Y10T 29/481** (2015.01 - EP US); **Y10T 29/49609** (2015.01 - EP US); **Y10T 156/1751** (2015.01 - EP US)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 2014113737A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**US 2014201924 A1 20140724; US 9221670 B2 20151229**; CA 2916587 A1 20140724; CA 2916587 C 20210921; CA 3125837 A1 20140724; CN 105007780 A 20151028; CN 105007780 B 20181130; EP 2916690 A1 20150916; EP 2916690 A4 20151021; EP 2916690 B1 20170315; EP 3184001 A1 20170628; EP 3184001 B1 20210303; ES 2861575 T3 20211006; MX 2015008290 A 20160209; MX 2021008705 A 20210819; MX 344947 B 20170112; PL 2916690 T3 20170929; PL 3184001 T3 20210906; US 10376983 B2 20190813; US 2015202822 A1 20150723; US 2015208817 A1 20150730; US 2015208818 A1 20150730; US 2015210004 A1 20150730; US 2015216318 A1 20150806; US 2016332249 A1 20161117; US 9126821 B2 20150908; US 9126822 B2 20150908; US 9221671 B2 20151229; US 9321625 B2 20160426; US 9821403 B2 20171121; WO 2014113737 A1 20140724

DOCDB simple family (application)  
**US 201414158811 A 20140118**; CA 2916587 A 20140118; CA 3125837 A 20140118; CN 201480013455 A 20140118; EP 14741054 A 20140118; EP 17150479 A 20140118; ES 17150479 T 20140118; MX 2015008290 A 20140118; MX 2021008705 A 20150624; PL 14741054 T 20140118; PL 17150479 T 20140118; US 2014012147 W 20140118; US 201514602257 A 20150121; US 201514602263 A 20150121; US 201514602266 A 20150121; US 201514602272 A 20150121; US 201514602275 A 20150122; US 201615185774 A 20160617